

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S2	3	(succinimidoalkyl\$) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 11:22
S3	18203	(corrosion adj inhibitor) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 11:41
S5	190	S4 and succinic	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 11:55
S10	0	(\$alkylsuccinimidoammonium) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 11:59
S9	0	(\$alkylsuccinimidoamine) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 11:59
S8	0	(alkylsuccinimidoamine) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 11:59
S7	0	(alkylsuccinimidoammonium) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 11:59
S6	31	(alkylsuccinimido\$) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 11:59
S1	1	(alkenylsuccinimido\$) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 11:59
S11	3	(corrosion adj inhibitor) with ammonium with succinimide and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 12:00
S4	1089	(corrosion adj inhibitor) with ammonium and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 12:00
S14	0	trialkyl\$ammonium with (corrosion adj inhibitor) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 12:33
S13	3171	trialkyl\$ammonium and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 12:33
S12	293	(corrosion adj inhibitor) with (ammonium adj salt) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 12:33
S16	0	succinimide near (alkyl adj amine) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 12:35

## EAST Search History

S15	8	trialkyl\$ammonium with succinic and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 12:35
S17	31	succinimide with (alkyl adj amine) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 12:48
S20	0	trialkylsuccinic adj amine and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 12:49
S19	0	alkylsuccinic adj amine and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 12:49
S21	5	succinic adj ammonium and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 12:56
S18	5	succinic adj amine and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 12:56
S25	0	S22 and "508".clas.	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 12:57
S24	0	(trialkylammonium adj succinate) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 12:57
S23	0	(alkylammonium adj succinate) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 12:57
S22	198	(ammonium adj succinate) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 12:57
S26	220	(\$ammonium adj succinate) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 12:58
S27	23	S26 not S22	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 14:21
S28	0	(alkoxy adj imide) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 14:28
S32	0	(\$aminoalkyl adj succinimide) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 14:29
S31	0	(aminoalkyl adj succinimide) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 14:29

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S30	409	(alkyl adj succinimide) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 14:29
S29	0	(alkoxy adj succinimide) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 14:32
S33	0	(\$6alkoxy adj succinimide) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 14:33
S34	181	alkylenediamine and (succinic adj anhydride) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 14:37
S38	0	alkyldiamine with (succinic adj anhydride) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 14:38
S37	0	alkylaminoalkylenediamine and (succinic adj anhydride) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 14:38
S36	0	aminoalkylenediamine and (succinic adj anhydride) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 14:38
S35	14	alkylenediamine with (succinic adj anhydride) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 14:38
S41	0	(chevrontexaco adj ucbo)	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 14:53
S40	7	S39 and (succinic adj anhydride)	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 14:56
S43	0	(chevrontexaco adj ucbo)	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 15:04
S42	7	(chevron adj ucbo)	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 15:04
S39	141	dibutylaminopropylamine and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 15:57
S45	118	diethylaminopropylamine and (succinic adj anhydride) @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 15:58
S47	1	alkenylsuccinimidoalkylamine	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 15:59

## EAST Search History

S48	0	triethylaminopropylamine and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 16:02
S46	21	diethylaminopropylamine with (succinic adj anhydride) @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 16:04
S49	43	S45 and quatern\$7	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 17:54
S50	2575	dimethylaminopropylamine and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 17:55
S44	1323	diethylaminopropylamine and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 17:55
S51	106	dimethylaminopropylamine and "508". clas. @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 18:08
S52	49	(quaternary adj amine) and "508". clas. @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 18:12
S53	4	(quaternary adj amine) with succin\$5 and "508". clas. @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 18:13
S55	1	("polyalkenyl succinic anhydride/polyalkylene amine condensates") and "508". clas. @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 18:23
S57	1	(polyalkenyl adj succinic adj anhydride adj polyalkylene adj amine adj condensate) and "508". clas. @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 18:24
S56	1	("polyalkenyl succinic anhydride/polyalkylene amine condensate") and "508". clas. @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/27 18:24
S59	35	succin\$5 with surfactant and "508". clas. @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 10:58
S58	95	(quaternary adj ammonium) with surfactant and "508". clas. @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 10:58
S62	165	548/569.ccls. and succin\$5	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 11:49
S61	62	S60 and corrosion	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 11:49

## EAST Search History

S63	122	S62 and ammonium	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 11:50
S64	1	"3962104".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 11:57
S54	10	(quaternary adj ammonium) with succin\$5 and "508".clas. @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 11:57
S65	14	("3962104").URPN.	USPAT	AND	ON	2006/09/28 12:02
S67	1	"4388200".pn.	USPAT	AND	ON	2006/09/28 13:47
S66	2	("4171959").URPN.	USPAT	AND	ON	2006/09/28 13:47
S68	0	(quaternary adj ammonium adj salts adj of adj succin\$5)	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 14:42
S69	0	(quaternary adj ammonium adj salts adj of adj succin\$6)	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 14:50
S72	4	(quaternary adj succin\$6)	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 14:55
S76	8	(quaternary adj ammonium adj salts adj malei\$6)	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 14:58
S73	7	(quaternary adj ammonium adj succin\$6)	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 14:58
S75	4	(quaternary adj salts adj malei\$6)	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 14:59
S74	1	(quaternary adj ammonium adj malei\$6)	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:02
S77	1	"3912693".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:08
S79	18	succinimide with heteroatom and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:11
S78	0	succinimide near heteroatom and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:11
S84	4	adipimide with ammonium and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:18

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S83	0	adipimide with quaternary and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:18
S81	83	adipimide and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:18
S87	3	(succinimide adj ether) and "44".clas. and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:20
S82	4	fumarimide and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:20
S85	1	(succinimide adj ether) and "508".clas. and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:21
S90	15	kechia.in. and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:22
S89	3284	chou.in. and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:22
S88	0	chou-kechia.in. and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:22
S70	2	(quaternary adj ammonium adj salts adj succin\$6)	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:26
S92	0	\$uracilammonium	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:28
S91	11	(quaternary adj ammonium adj salts adj uracil)	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:28
S93	0	(quaternary adj salts adj uracil)	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:29
S71	1	(quaternary adj salts adj succin\$6)	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 15:29
S94	6	("4329239").URPN.	USPAT	AND	ON	2006/09/28 16:44
S96	0	ep-0446616-\$.did.	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/28 17:04
S95	7	((("5879561") or ("4493883") or ("4161590") or ("3113026") or ("3017416"))).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/09/28 17:04

## EAST Search History

S99	2	ep-446616-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/28 17:05
S97	0	ep-0446616-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/28 17:05
S98	2	wo-9803615-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/28 17:07
S10 0	2	"6102986".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/29 10:18
S10 1	0	jp-5193073-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/29 10:34
S10 3	0	(succinic adj ether) and "252".clas. and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/29 10:41
S86	0	(succinimide adj ether) and "252".clas. and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/29 10:41
S10 4	0	(succinic adj ether) and "508".clas. and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/29 11:03
S10 5	1	(quaternary adj ammonium adj salts adj \$6adip\$6)	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/29 11:24
S80	4	(quaternary adj ammonium adj salts adj \$6succin\$6)	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/29 11:24
S10 6	3603	surfactant near dispersant @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/29 11:27
S10 8	8	S107 and "508".clas.	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/29 11:28
S10 7	160	S106 and heteroatom	US-PGPUB; USPAT; USOCR	AND	ON	2006/09/29 11:28

## EAST Search History

S11 0	3173	fuel and deposits and diluent and @ad<"20030224"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/29 11:57
S11 1	684	fuel and deposits and diluent and succinimide @ad<"20030224"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/29 12:10
S11 5	0	fuel and deposits and ("hydrocarbons and water") and @ad<"20030224"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/29 12:13
S11 4	0	fuel and deposits and ("hydrocarbons and water") and succinimide @ad<"20030224"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/29 12:13
S11 3	0	fuel and deposits and ("hydrocarbon and water") and succinimide @ad<"20030224"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/29 12:13
S11 2	50	fuel and deposits and (diluent with water) and succinimide @ad<"20030224"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/29 12:16
S11 6	0	("fuel containing water") and succinimide @ad<"20030224"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/29 12:17
S11 9	2	"5298038".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/29 12:20
S11 8	1	1990-038442.NRAN.	DERWENT	AND	ON	2006/09/29 12:20
S12 0	3	"3818876".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/29 12:22



## EAST Search History

S11 7	90	("fuel containing water") and @ad<"20030224"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/29 12:22
S10 2	2	jp-05193073-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/29 12:34
S12 1	25	succinimide with alkanolamine and @ad<"20030224"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/29 13:42
S12 2	34	(quaternary adj ammonium) with (polyether adj amine) @ad<"20030224"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/29 14:09
S12 3	33	(polyether adj amine) with succinimide @ad<"20030224"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2006/09/29 14:10
S12 5	1061	(quaternary adj ammonium) with succin\$5 and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 12:04
S60	1052	(quaternary adj ammonium) with succin\$5 and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 12:04
S12 7	1	"3962104".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 12:25
S12 6	10	S125 and "508".clas.	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 12:25
S12 8	43	S125 and "252".clas.	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 12:37
S13 0	7	S129 and corrosion	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 12:38
S12 9	42	S128 not S126	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 12:38
S13 3	5	succinimide and quatern\$4 and (ether or polyether or oxyalkylene)	DERWENT	AND	ON	2007/03/06 14:40

## EAST Search History

S13 1	4380	succinimide and quatern\$4 and (ether or polyether or oxyalkylene)	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 14:40
S13 4	75	S132 and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 14:44
S13 2	126	succinimide with quatern\$4 and (ether or polyether or oxyalkylene)	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 14:45
S13 5	1	succinimide near quatern\$4 and (ether or polyether or oxyalkylene)	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 14:46
S13 7	1	"5034508".pn.	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 14:56
S14 0	2	wo-9627681-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2007/03/06 14:57
S14 2	3148	S141 and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 15:24
S14 1	3920	jeffamine	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 15:24
S13 6	74	S134 not S135	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 15:24
S14 3	36	jeffamine with succin\$5	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 15:25
S14 4	33	S143 and S142	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 15:32
S14 6	214	succin\$5 and quatern\$4	EPO; JPO; DERWENT	AND	ON	2007/03/06 16:03
S14 5	12	S144 and quatern\$4	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 16:03
S14 7	28	S146 and (ether or polyether or oxyalkylene)	EPO; JPO; DERWENT	AND	ON	2007/03/06 16:04
S14 8	25	S147 and @ad<"20030224"	EPO; JPO; DERWENT	AND	ON	2007/03/06 17:11
S14 9	90	(508/243.ccls. or 508/244.ccls. or 508/267.ccls.) and @ad<"20030224"	US-PGPUB; USPAT; USOCR	AND	ON	2007/03/06 17:12